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Photocurable compsn. contg. epoxy resin, carboxylic acid anhydride - and
cpds. liberating Lewis acid on irradiation and by heating

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 56053129	A	19810512	JP 79129068	A	19791005	198126 B
JP 87004052	B	19870128				198707

Priority Applications (No Type Date): JP 79129068 A 19791005

Abstract (Basic): JP 56053129 A

Compsn. (100 wt.pts.) comprises (A) epoxy resin contg. 2 epoxy gps.
and (B) a polyfunctional carboxylic acid anhydride copolymerisable with
the resin (e.g. (tetrahydro)phthalic, hexahydrophthalic, maleic, methyl
tetrahydrophthalic, (dodecenyl) succinic, methyl succinic, citraconic,
trimellitic and pyromellitic anhydrides (0.8 mols per mol of epoxy
group in the resin) is blended with (C) a cpd. liberating a Lewis acid
on irradiation with light or radioactive rays (e.g. diazonium salts of
Lewis acids of formula (I)). (MX_n is a complexed anion, S is a halo
(e.g. F and Cl) M is a transition metal (e.g. Sb, Fe, Sn, Bi, Al, Ga,
In, Ti, Zr, Sc, V, Cr, Mn or Co) or a metalloid (e.g. B, P and S) (e.g.
BF₄(-), PF₆(-), AsF₆(-), SbF₆(-), FeCl₄(-), SnCl₆(-), SbCl₆(-) and
BiCl₅(--)) and Y is NO₂, OH, halo, N-morpholino, alkyl, alkoxy, amino,
aryl(amino) or arylmercapto and m is an integer, or a diaryliodonium
Lewis acid of formula (II). R₁ is R₂ is Y, or a Lewis acid
triphenylonium salt of formula (III) (Q₁) is S, Se, Si and Sn, or a
triphenyl-alkyl, -alkoxy or -aryl onium salt of Lewis acids of formula
(IV) Q₂ is P, N or Sb and R₃ is an alkyl, alkoxy or aryl) (0.05-5
wt.pts.) and (D) a cpd. liberating a Lewis acid by heating it (e.g.
BF₃/amine complexes) (0.05-5 wt.pts.).

The epoxy resin compsns. are curable by irradiation with light or
radioactive rays.

Title Terms: PHOTOCURABLE; COMPOSITION; CONTAIN; EPOXY; RESIN; CARBOXYLIC;
ACID; ANHYDRIDE; COMPOUND; LIBERATING; LEWIS; ACID; IRRADIATE; HEAT

Derwent Class: A21; A60; A89; E12; G06

International Patent Class (Additional): C08G-059/18; C08L-063/00;

H01B-003/40

File Segment: CPI